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REPORT NO.

CD NO.

25X1A

DATE DISTR. 22 June 1950

NO. OF PAGES 3

25X1

NO. OF ENCLS.
(LISTED BELOW)

SUPPLEMENT TO
REPORT NO.

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1. Personnel :

Managing Director : Alexander Geleji, Dr. Eng.
Chief Engineer : Franz Bella, Grad. Eng.
Foundry Manager : Alexander Altei, Grad. Eng.
Manager of ingot foundry : Adalbert Roesner, Grad. Eng.
Manager of rolling mill : Aldo Bummer, Grad. Eng.
Manager of press-working plant : Eng Andreas Kolossy

2. The foundry : (Annex 1)

a. The mold casting plant is equipped to meet all technical requirements of casting. Soot and crucible furnaces are electrically heated; the sand dressing operations are completely mechanical. Molding shop, core making plant, magnesium foundry, blacksmith's shop, pickling plants, refining plants, cast cleaning and X-ray installation are greatly mechanized.

b. On either side of the entrance to the foundry are the office rooms, on the left the management, on the right the works accounting section. More to the left is the smelting room with two Junkers smelting

Document No. _____
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furnaces of 1,000 kg each; right and left of them are crucible furnaces, four on each side, each with a capacity of 180 kg. The presmelted and alloyed metal is conveyed to the crucibles, undergoes the technical casting (de-gassing) process, and is then carried to the casting shop by a crane. In the casting shop are the moldery, the sand dressing installation, the core-making molding shop and the drying plant. The molding frames are largely mechanized, operate mold boxes of 2 x 1½ square meters and by casting process make all light-metal components for I.C. engines. Components for aircraft engines, casings and piece parts for compressors to be delivered to the Soviet Union are made this way.

c. In the rear tract are the electrical foundry, the smelting plant and the molding shop which also almost exclusively casts aircraft components. In the intermediate tract is the cast-cleaning shop in which the castings are freed from adherent sand and the runner head and from where they are carried to the cleaning shop. There they are brushed and treated with electrically driven cleaning tools. The casting then undergoes heat treatment. The alloy chiefly processed is silumin-g (gamma); the maximum daily capacity is 3,000 kg.

3. The block casting shop : (Annex 2)

The alloys are smelted in two soot furnaces, each with a capacity of 1,500 kg of aluminum. The smelted and alloyed material is poured into the cooling furnaces and then cast after three hours*time. The smelting and the cooling furnaces are tiltable. The casting device is a Junkers ingot-casting apparatus which casts ingots up to 3 meters in length. After being cut the ingots are put into the press. Maximum capacity is 12,000 to 15,000 kg per day excluding night shifts.

4. The rolling mill : (see Annex 2)

The rolling mill has one reversible warm mill train and four duotrans for cold rolling. Faced ingots from the block foundry are preheated in an electrically heated draught furnace to the rolling temperature (380 to 460 deg. centigrade), then pass the warm rolling mill and leave it as plates, 15 mm thick and 130 x 200 cm surface. Treatment in the cold rolling

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mill follows, with intermediate annealing operations in the annealing furnaces opposite the rolling mill. There are eight furnaces with interior dimensions of 2 x 4 x 1.2 meters. The heating is electric. Finished sheets are classified by their surface and then cut in the storeroom on the right-hand side. Capacity : 10,000 to 12,000 kg per day.

5. The pressing rolls :

The pressing pressure is 5,000 tons. The diameter of the receiver is 140 mm. Preheated material is conveyed to the pressing rolls on a roller path. The pressed bars, round or profiled, are straightened on the straightening machine, cut and classified. The output in two shifts is 6,000 to 8,000 kg of light alloy, mostly Fredal (a Cu-Mg-Al alloy).

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☐ Comment :

The aluminum plant is a subsidiary plant of the Manfred Weiss Plant to supply raw material and semi-finished products for the heavy-industry section, for the factory of agricultural machines and commodities including the aircraft factory, and for the ammunition factory.

2 Annexes : 1. Manfred Weiss Aluminum Plant in Csepel. Aluminum Foundry.

2. Manfred Weiss Aluminum Plant in Csepel. Aluminum Rolling Mill and Ingot Casting Shop.

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